

4
public class Object
public class C1 extends Object
public class C2 extends C1
2

FIG. 1A

14
public class Object
public class C1 extends Object
class PrivateClass extends C1
public class C2 extends PrivateClass
12
10
8

FIG. 1B

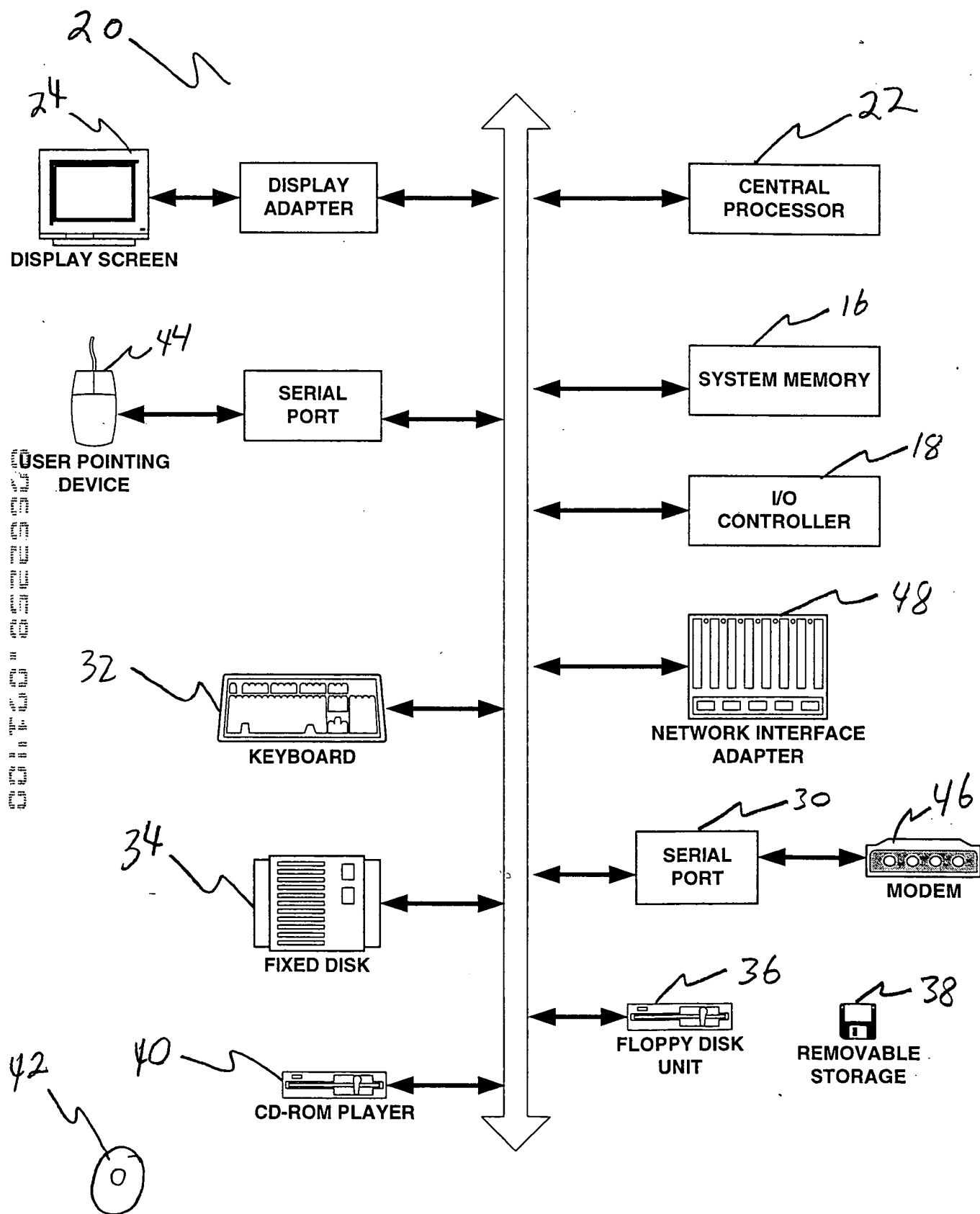


Fig. 2 A

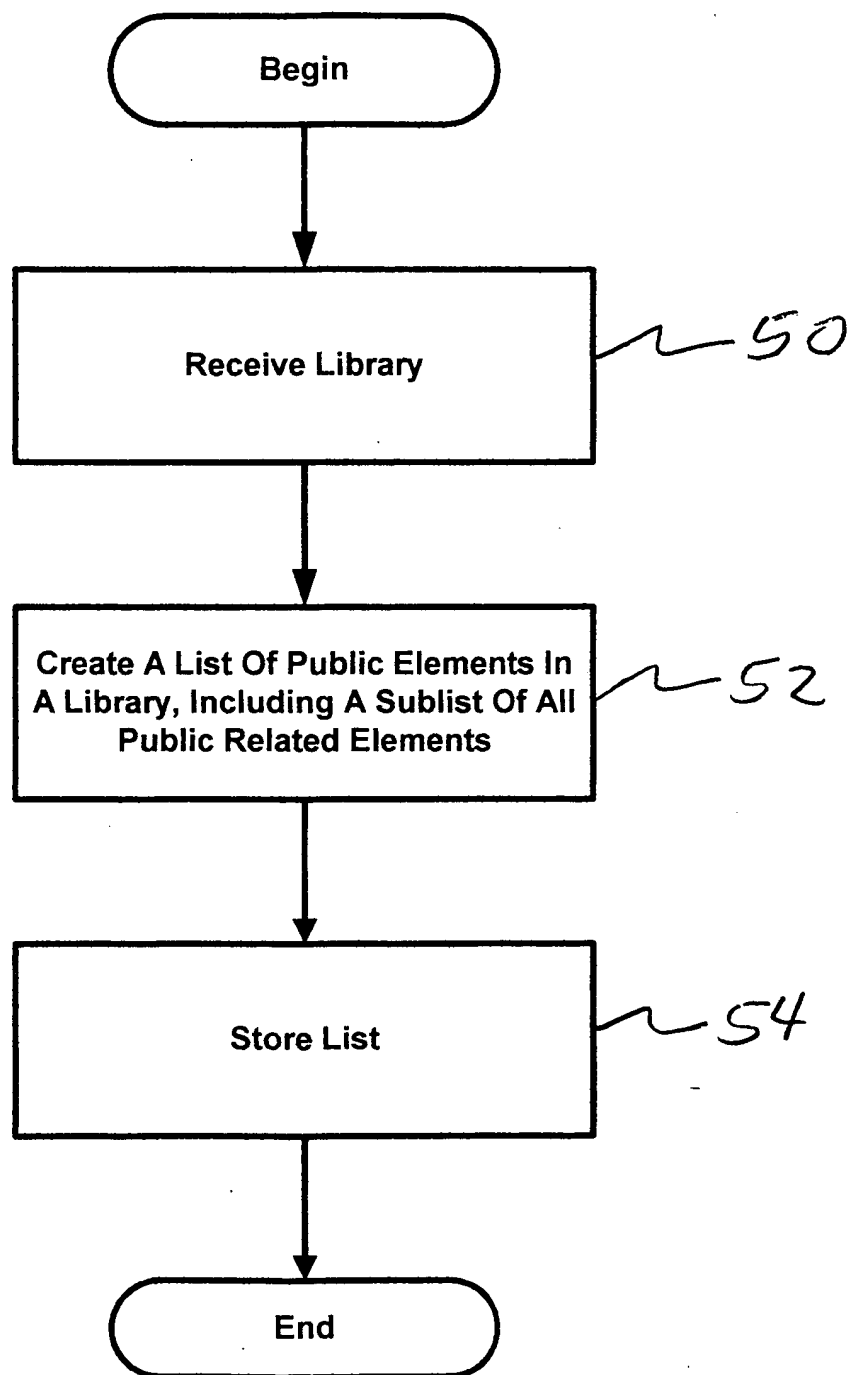


Fig. 2B

```
public class Object  
    superclasses = <none>  
public class C1  
    superclasses = Object  
public class C2  
    superclasses = C1, Object
```

Handwritten annotations: 60 points to 'Object', 58 points to 'C1', and 56 points to the 'superclasses' list in 'C2'.

FIG. 2C

```
public class C1  
    superclasses = <none>  
public class Object  
    superclasses = C1  
public class C2  
    superclasses = C1, Object
```

Handwritten annotations: 62 points to 'C1', 64 points to 'Object', and 66 points to the 'superclasses' list in 'C2'.

FIG. 2D

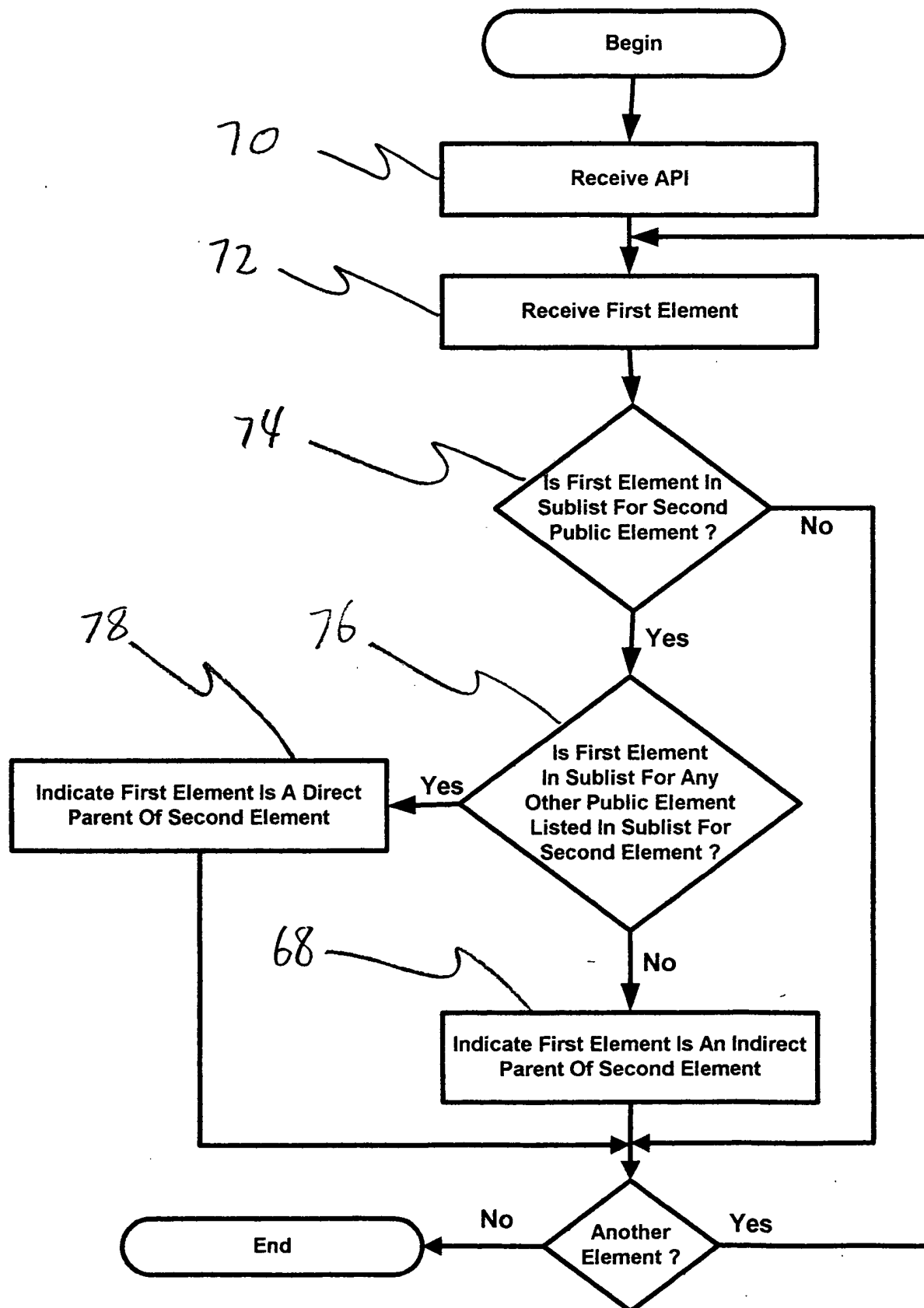


Fig. 3A

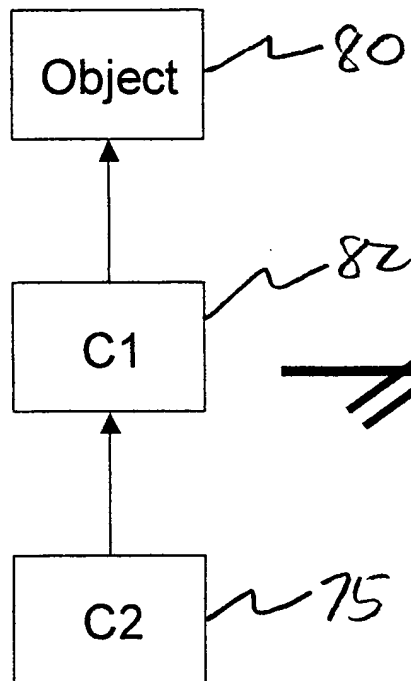


FIG. 3B

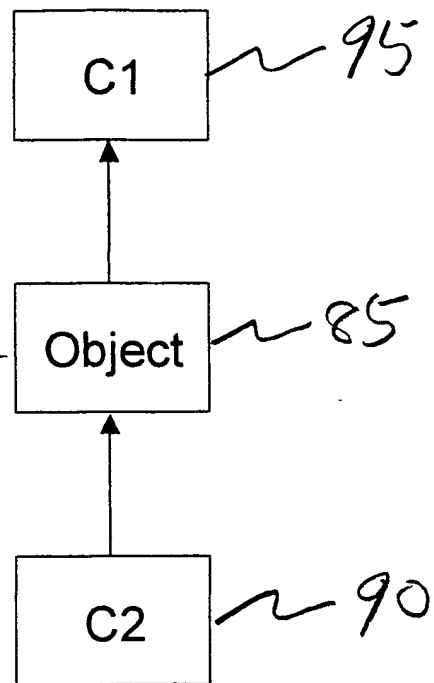


FIG. 3C

1. The first step is to identify the problem. This involves understanding the current situation and what needs to be changed.

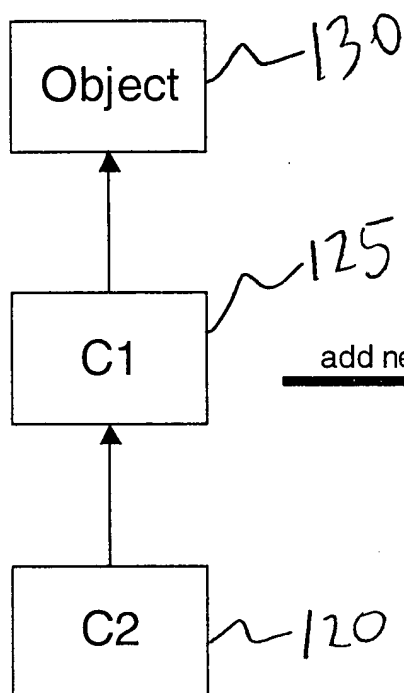


FIG. 4A

add new C3

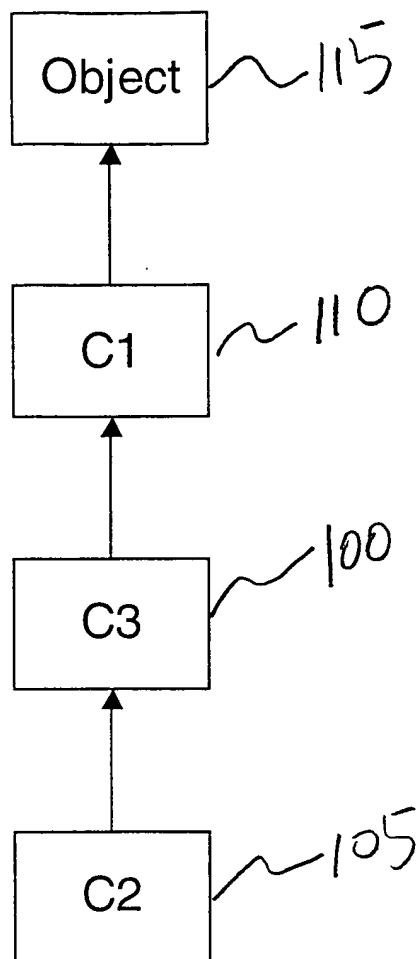


FIG. 4B

```
public class Object
    superclasses = <none>
public class C1
    superclasses = Object
public class C2
    superclasses = C1, Object
```

FIG. 5A

```
public class Object
    superclasses = <none>
public class C1
    superclasses = Object
public class C3
    superclasses = C1, Object
public class C2
    superclasses = C3, C1, Object
```

FIG. 5B

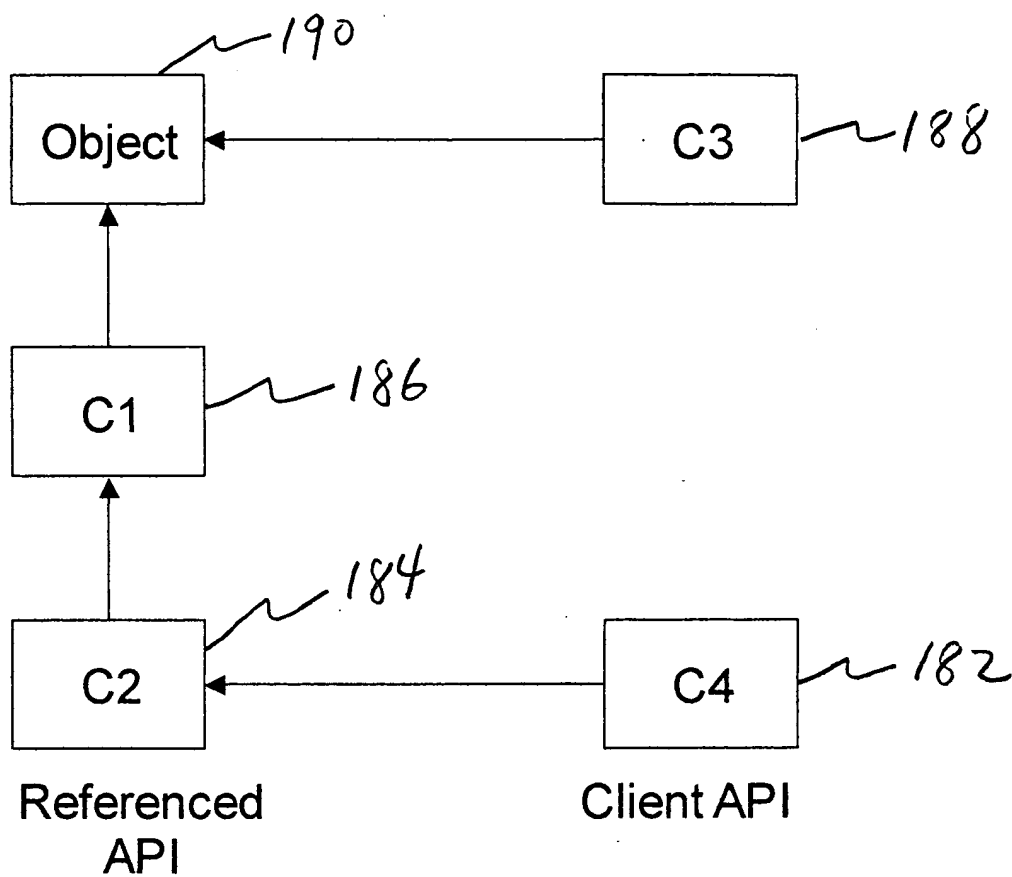


FIG. 6A

```
public class C3 extends Object
public class C4 extends C2
```

200
205

FIG. 6B

```
public class C3
    superclasses = Object
public class C4
    superclasses = C2, C1, Object
```

210
215
220

FIG. 6C